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FIBER ORGANON

Formerly Textile Organon

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Highlights

- 1988 Per Capita Consumption Review... begins on page 83.
- May 1989 Capacity Survey Analysis... begins on page 88.
- Canadian Mill Consumption... begins on page 91.

SHIPMENTS:

In April, total manufactured fiber shipments reached 776 million pounds, 3% below the 797 million pounds shipped in March and 1% above the 766 million pounds shipped in April 1988.

April shipments of noncellulosic filament yarn fell 1% to 351 million pounds and staple+tow fell 4% to 371 million pounds.

Contributing to the decrease in shipments over the previous month were nylon staple down 14% or 13 million pounds and nylon carpet yarn down 4 million pounds or 6%.

Year-to-date domestic shipments of manufactured fiber are up 2% and exports are down 9%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1989 APR	1989 MAR	% CHG 4/89-3/89	1988 APR	% CHG 4/89-4/88	YEAR TO DATE 1989	YEAR TO DATE 1988	% CHG YTD 1989-1988
CELLULOSIC								
YARN	21.5	18.4	*+16.8*	19.4	*+10.8*	74.3	69.3	*+7.2*
RAYON STAPLE	32.1	36.5	*-12.1*	35.5	*-9.6*	135.2	142.6	*-5.2*
TOTAL CELLULOSIC	**53.6**	**54.9**	*-2.4*	**54.9**	*-2.4*	**209.5**	**211.9**	*-1.1*
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.3	32.5	*-0.6*	32.2	*+0.3*	126.6	126.7	*-0.1*
CARPET	77.5	82.0	*-5.5*	80.7	*-4.0*	311.6	318.5	*-2.2*
TEXTILE [a]	34.6	35.0	*-1.1*	31.7	*+9.1*	136.7	126.9	*+7.7*
POLYESTER - INDUSTRIAL	32.2	30.9	*+4.2*	31.3	*+2.9*	121.4	117.9	*+3.0*
TEXTILE [a]	78.2	74.9	*+4.4*	74.3	*+5.2*	296.9	273.3	*+8.6*
OLEFIN	96.6	100.8	*-4.2*	102.7	*-5.9*	401.4	403.7	*-0.6*
TOTAL YARN	**351.4**	**356.1**	*-1.3*	**352.9**	*-0.4*	**1394.6**	**1367.0**	*+2.0*
STAPLE+TOW+FIBERFILL								
NYLON	76.4	88.8	*-14.0*	71.0	*+7.6*	325.9	314.8	*+3.5*
ACRYLIC+MODACRYLIC	49.2	48.6	*+1.2*	45.4	*+8.4*	185.7	202.1	*-8.1*
POLYESTER	213.7	216.8	*-1.4*	212.1	*+0.8*	823.9	798.4	*+3.2*
OLEFIN	31.4	32.0	*-1.9*	29.8	*+5.4*	126.0	119.2	*+5.7*
TOTAL STAPLE	**370.7**	**386.2**	*-4.0*	**358.3**	*+3.5*	**1461.5**	**1434.5**	*+1.9*
TOTAL NONCELLULOSIC	**722.1**	**742.3**	*-2.7*	**711.2**	*+1.5*	**2856.1**	**2801.5**	*+1.9*
TOTAL MANUFACTURED FIBER	**775.7**	**797.2**	*-2.7*	**766.1**	*+1.3*	**3065.6**	**3013.4**	*+1.7*
TOTAL SHIPMENTS DIVIDED AS								
DOMESTIC SHIPMENTS [b]	731.8	750.8	*-2.5*	721.3	*+1.5*	2887.0	2816.2	*+2.5*
EXPORTS [c]	43.9	46.4	*-5.4*	44.8	*-2.0*	178.6	197.2	*-9.4*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

May 1989

Fiber Organon

A Monthly Review

Formerly ***Textile Organon***

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1988 PER CAPITA CONSUMPTION REVIEW

Per capita consumption of all fibers fell to 65.6 pounds in 1988, 5.2% below the 69.2 pounds recorded in 1987.

In 1988, per capita GNP grew 3% over 1987, while per capita manufactured fiber consumption fell 1%, cotton per capita consumption decreased 11%, wool fell 11.8%, and other fibers (silk, linen, jute and sisal & other) fell 16%.

Since 1978, the U.S. population has grown 10.5%. At the same time, the per capita GNP has increased 16% (in constant 1982 dollars), while per capita consumption of all fibers rose 9%, manufactured fiber per capita consumption increased 6.5%, wool rose 50%, and other fibers (silk, linen, jute and sisal & others) fell 57.1% (see Table 6).

TABLE & GRAPH SUMMARY

The tables and graphs contained in this review are described as follows:

Table 2: Per capita GNP derived by dividing the annual Gross National Product data by the population July 1st.

Table 3: Total U.S. domestic fiber consumption from the April Fiber Organon, page 71.

Table 4: Domestic consumption data in Table 3 divided by July 1st population data.

Table 5: Summary of total mill consumption of all fibers, except glass fiber.

Table 6: Percentage change and relative growth over time of population, per capita GNP and per capita consumption of the various fibers.

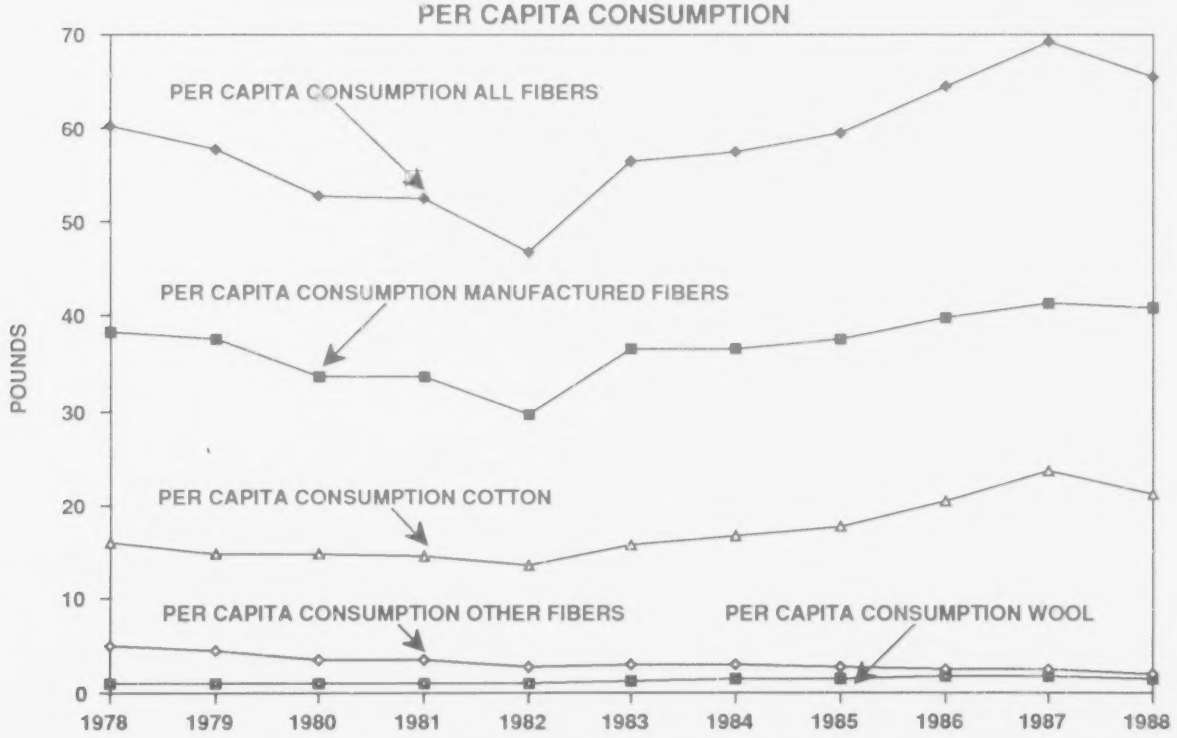
Table 7: Summary of the raw fiber equivalent of the U.S. imports of semimanufactured and manufactured products.

Table 8: Listing of imports in per capita terms and their percentage growth over time for comparison with overall per capita domestic consumption.

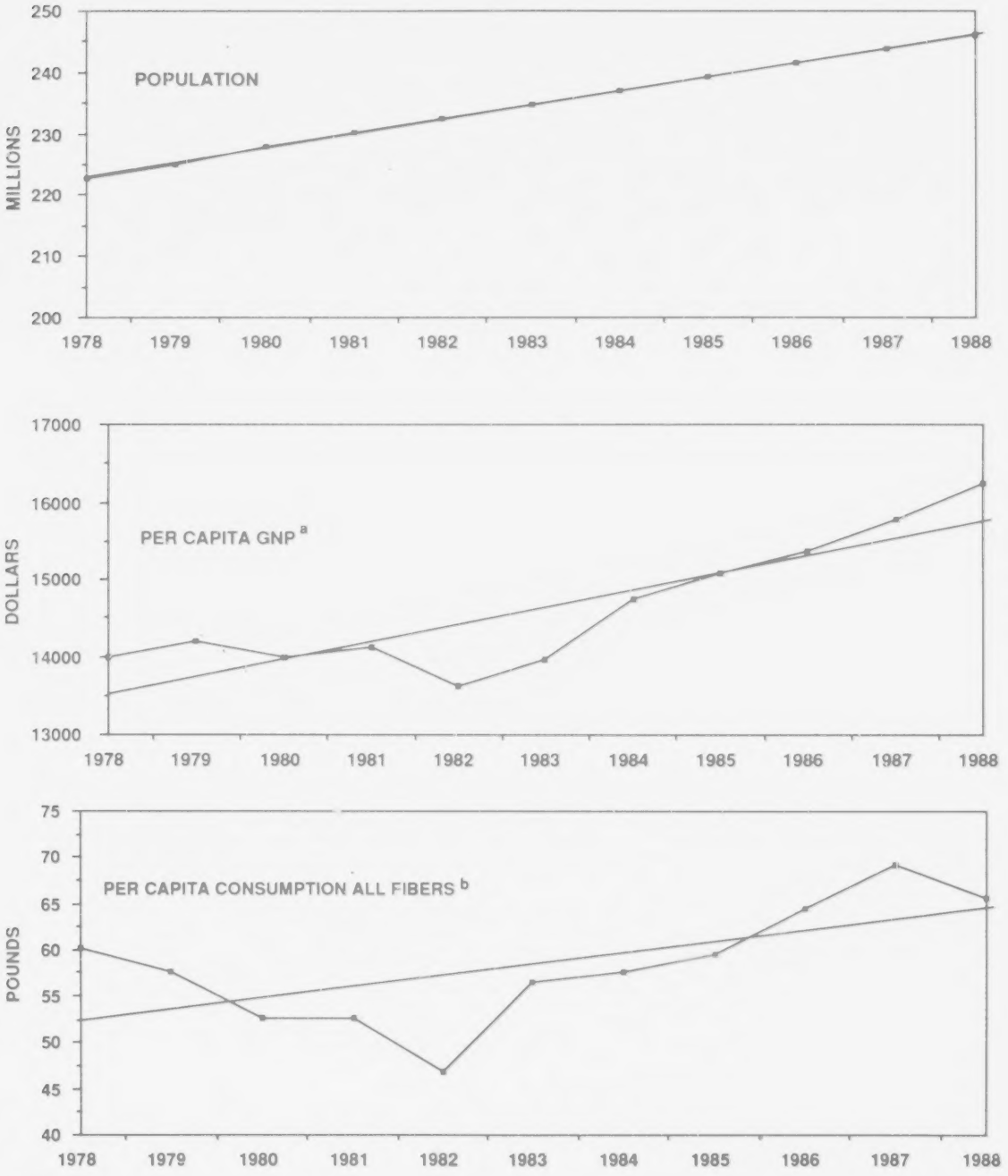
Graph 1: Per capita consumption of all fibers, based on the data in Table 4.

Graph 2: Growth in the population and trends in per capita GNP and per capita consumption of all fibers, as shown in Tables 2 and 4.

GRAPH 1:
PER CAPITA CONSUMPTION



GRAPH 2:
COMPARISON OF POPULATION, GNP & PER CAPITA CONSUMPTION OF ALL FIBERS



a. In 1982 dollars.
b. Data on Glass Fiber are no longer available to prevent company level disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 2:
U.S. POPULATION, GROSS NATIONAL PRODUCT & PER CAPITA GROSS NATIONAL PRODUCT

YEAR	POPULATION [a]	GNP [b]	PER CAPITA GNP [c]
1978	222 6	3115 2	13995
1979	225 1	3192 4	14182
1980	227 8	3187 1	13991
1981	230 1	3248 8	14119
1982	232 5	3166 0	13617
1983	234 8	3275 2	13949
1984	237 0	3492 0	14734
1985	239 3	3607 5	15075
1986	241 6	3713 3	15370
1987	243 9	3847 0	15773
1988	246 0	3995 0	16240

SOURCE: Current Population Reports, U S Dept of Commerce Bureau of the Census
Survey of Current Business, U S Dept of Commerce Bureau of Economic Analysis

a. In millions Population data for all years have been changed to that of July 1
b. In billions of 1982 dollars
c. In dollars

TABLE 3:
U.S. TOTAL FIBER CONSUMPTION
MILLION POUNDS

YEAR	MFRD. FIBER [a]	COTTON	WOOL	OTHER FIBERS	TOTAL
1978	8541 9	3530 1	222 2	1086 1	13380 3
1979	8451 8	3334 5	201 0	1021 9	13009 2
1980	7654 8	3352 2	199 1	807 0	12013 1
1981	7722 9	3325 4	234 0	794 7	12077 0
1982	6912 9	3122 7	218 8	648 4	10902 8
1983	8603 2	3711 5	300 7	690 3	13305 7
1984	8644 2	3929 2	361 4	680 1	13614 9
1985	9027 4	4212 0	381 7	646 9	14268 0
1986	9637 6	4937 4	424 1	582 4	15581 5
1987	10075 2	5774 2	404 6	603 5	16857 5
1988	10062 6	5189 6	367 9	511 0	16131 1

a. Excludes Glass Fiber Data on Glass Fiber are no longer available due to company disclosure The series including Glass Fiber was last published in the May 1985 issue

TABLE 4:
U.S. PER CAPITA FIBER CONSUMPTION [a]
POUNDS

		PER CAPITA				
PERIOD	POPU-LATION	MFRD. FIBER [b]	COTTON	WOOL	OTHER FIBERS	TOTAL
1978	222 6	38 4	15 9	1 0	4 9	60 2
1979	225 1	37 5	14 8	0 9	4 5	57 7
1980	227 8	33 6	14 7	0 9	3 5	52 7
1981	230 1	33 6	14 5	1 0	3 5	52 6
1982	232 5	29 7	13 4	0 9	2 8	46 8
1983	234 8	36 6	15 8	1 3	2 9	56 6
1984	237 0	36 5	16 6	1 5	2 9	57 5
1985	239 3	37 7	17 6	1 6	2 7	59 6
1986	241 6	39 9	20 4	1 8	2 4	64 5
1987	243 9	41 3	23 7	1 7	2 5	69 2
1988	246 0	40 9	21 1	1 5	2 1	65 6

a. Based on total U S domestic consumption (mill consumption plus imports less exports of semimanufactured and manufactured products)
b. Excludes Glass Fiber Data on Glass Fiber are no longer available due to company disclosure The series including Glass Fiber was last published in the May 1985 issue

TABLE 5:
MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACETATE[a]	NYLON[b]	POLYESTER	ACRYLIC[c]	OLEFIN	COTTON	WOOL	OTHER FIBERS	TOTAL
1978	0.6	0.3	2.5	3.7	0.6	0.7	3.0	0.1	0.2	11.7
1979	0.5	0.3	2.7	3.7	0.6	0.7	3.1	0.1	0.2	11.9
1980	0.5	0.3	2.3	3.5	0.6	0.7	3.1	0.1	0.1	11.2
1981	0.5	0.2	2.2	3.5	0.5	0.8	2.7	0.2	0.1	10.7
1982	0.3	0.2	1.9	3.0	0.5	0.8	2.5	0.1	0.1	9.4
1983	0.4	0.2	2.4	3.4	0.5	1.0	2.8	0.2	0.1	11.0
1984	0.4	0.2	2.4	3.2	0.5	1.0	2.7	0.2	0.1	10.7
1985	0.5[d]		2.5	3.1	0.5	1.3	2.8	0.2	0.1	11.0
1986	0.6[d]		2.5	3.2	0.6	1.5	3.3	0.2	0.1	12.0
1987	0.6[d]		2.7	3.5	0.5	1.6	3.7	0.2	0.1	12.9
1988	0.6[d]		2.7	3.6	0.5	1.6	3.4	0.2	0.1	12.7

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

a. Includes triacetate. Cigarette tow is excluded.
b. Includes Aramid for all years except 1983-1988.
c. Includes modacrylic.
d. Rayon and acetate combined.

TABLE 6:
PERCENT ANALYSIS OF POPULATION, PER CAPITA GNP AND PER CAPITA CONSUMPTION OF MANUFACTURED FIBER, COTTON, WOOL & OTHER FIBERS

YEAR	POPULATION	% [a]	% [b]	PER CAPITA GNP	% [a]	% [b]	PER CAPITA CONSUMPTION: MANUFAC. FIBER[c]	% [a]	% [b]	COTTON	% [a]	% [b]	WOOL	% [a]	% [b]	OTHER FIBERS	% [a]	% [b]	ALL FIBERS	% [a]	% [b]
1978	222.6	--	--	13995	--	--	38.4	--	--	15.9	--	--	1.0	--	--	4.9	--	--	60.2	--	--
1979	225.1	+1.1	+1.1	14182	+1.3	+1.3	37.5	-2.3	-2.3	14.8	-6.9	-6.9	0.9	-10.0	-10.0	4.5	-8.2	-8.2	57.7	-4.2	-4.2
1980	227.8	+1.2	+2.3	13991	-1.3	--	33.6	-10.4	-12.5	14.7	-0.7	-7.5	0.9	--	-10.0	3.5	-22.2	-28.6	52.7	-8.7	-12.5
1981	230.1	+1.0	+3.4	14119	+0.9	+0.9	33.6	--	-12.5	14.5	-1.4	-8.8	1.0	+11.1	--	3.5	0.0	-28.6	52.6	-0.2	-12.6
1982	232.5	+1.0	+4.4	13617	-3.6	-2.7	29.7	-11.6	-22.7	13.4	-7.6	-15.7	0.9	-10.0	-10.0	2.8	-20.0	-42.9	46.8	-11.0	-22.3
1983	234.8	+1.0	+5.5	13949	+2.4	-0.3	36.6	+23.2	-4.7	15.8	+17.9	-0.6	1.3	+44.4	+30.0	2.9	+3.6	-40.8	56.6	+20.9	-6.0
1984	237.0	+0.9	+6.5	14734	+5.6	+5.3	36.5	-0.3	-4.9	16.6	+5.1	+4.4	1.5	+15.4	+50.0	2.9	0.0	-40.8	57.5	+1.6	-4.5
1985	239.3	+1.0	+7.5	15075	+2.3	+7.7	37.7	+3.3	-1.8	17.6	+6.0	+10.7	1.6	+6.7	+60.0	2.7	-6.9	-44.9	59.6	+3.7	-1.0
1986	241.6	+1.0	+8.5	15370	+2.0	+9.8	39.9	+5.8	+3.9	20.4	+15.9	+28.3	1.8	+12.5	+80.0	2.4	-11.1	-51.0	64.5	+8.2	+7.1
1987	243.9	+1.0	+9.6	15773	+2.6	+12.7	41.3	+3.5	+7.6	23.7	+16.2	+49.1	1.7	-5.6	+70.0	2.5	+4.2	-49.0	69.2	+7.3	+15.0
1988	246.0	+0.9	+10.5	16240	+3.0	+16.0	40.9	-1.0	+6.5	21.1	-11.0	+32.7	1.5	-11.8	+50.0	2.1	-16.0	-57.1	65.6	-5.2	+9.0

Population is in millions of people.
Per Capita GNP is 1982 dollars.
All other Per Capita Consumption data are in pounds.
All data are taken from the tables on page 85.

a. Percent change year to year.
b. Percent change since 1978.
c. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 7:
RAW FIBER EQULIVALENT OF IMPORTS OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES
MILLION POUNDS

	MANUFACTURED FIBER						COTTON						WOOL					
	1983	1984	1985	1986	1987	1988	1983	1984	1985	1986	1987	1988	1983	1984	1985	1986	1987	1988
IMPORTS																		
SEMIMANUFACTURED PRODUCTS																		
YARN, THREAD, ETC	58.0	71.0	74.7	96.3	91.9	67.6	42.1	54.6	56.3	105.9	134.5	95.5	7.6	16.3	14.1	13.7	14.6	13.1
CLOTH	138.0	170.4	129.1	245.0	211.7	205.7	346.3	450.8	421.2	532.9	649.9	466.4	28.1	39.0	36.4	25.9	29.5	29.9
SUBTOTAL	**196.0**	**241.4**	**203.8**	**341.3**	**303.6**	**273.3**	**388.4**	**505.4**	**477.5**	**638.8**	**784.4**	**561.9**	**35.7**	**55.3**	**50.5**	**39.6**	**44.1**	**43.0**
MANUFACTURED PRODUCTS																		
WEARING APPAREL	576.0	688.9	798.1	929.4	1033.6	991.7	622.8	759.5	895.5	1016.0	1265.6	1254.4	58.8	80.8	137.0	155.6	158.9	144.3
INDUSTRIAL	1.3	0.4	0.9	2.7	5.6	11.6	14.3	37.6	32.4	46.4	53.2	51.4	NOMINAL QUANTITIES INCLUDED IN OTHER					
HOME FURNISHINGS	296.1	411.3	394.2	429.2	462.6	459.1	78.0	138.9	169.7	182.9	205.2	218.7	34.8	52.1	60.8	62.9	53.1	41.2
ALL OTHER							31.9	23.4	38.6	26.4	27.3	32.4	2.6	1.2	0.6	2.4	2.2	13.9
SUBTOTAL	**873.4**	**1100.6**	**1193.2**	**1361.3**	**1501.8**	**1462.4**	**747.0**	**959.4**	**1136.2**	**1271.7**	**1551.3**	**1556.9**	**96.2**	**134.1**	**198.4**	**220.9**	**214.2**	**199.4**
TOTAL IMPORTS	**1069.4**	**1342.0**	**1397.0**	**1702.6**	**1805.4**	**1735.7**	**1135.4**	**1464.8**	**1613.7**	**1910.5**	**2335.7**	**2118.8**	**131.9**	**189.4**	**248.9**	**260.5**	**258.3**	**242.4**

All of this data has been taken from the March 1989 *Textile Organon* issue page 54

TABLE 8:
PER CAPITA CONSUMPTION OF IMPORTS OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES COMPARED WITH PER CAPITA TOTAL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL
POUNDS & *PERCENT*

	IMPORTS															DOMESTIC FIBER CONSUMPTION					
	MANUFACTURED FIBER					COTTON					WOOL										
YEAR	TOTAL	%[a]	APPAREL	%[a]	%[b]	TOTAL	%[a]	APPAREL	%[a]	%[b]	TOTAL	%[a]	APPAREL	%[a]	%[b]	MANUFACTURED FIBER[c]	%[a]	COTTON	%[a]	WOOL	%[a]
1980	2.4		1.7		70.8	3.6		2.0		55.6	0.4		0.2		50.0	33.6		14.7		0.9	
1981	2.8	+16.7	1.9	+11.8	67.9	4.2	+16.7	2.2	+10.0	52.4	0.4	—	0.2	—	50.0	33.6	—	14.5	-1.4	1.0	+11.1
1982	3.0	+7.1	2.1	+10.5	70.0	3.9	-7.1	2.2	—	56.4	0.4	—	0.2	—	50.0	29.7	-11.6	13.4	-7.6	0.9	-10.0
1983	4.6	+53.3	2.5	+19.0	54.3	4.8	+23.1	2.7	+22.7	56.3	0.6	+50.0	0.3	+50.0	50.0	36.6	+23.2	15.8	+17.9	1.3	+44.4
1984	5.7	+23.9	2.9	+16.0	50.9	6.2	+29.2	3.2	+18.5	51.6	0.8	+33.3	0.3	—	37.5	36.5	-0.3	16.6	+5.1	1.5	+15.4
1985	5.8	+1.8	3.3	+13.8	56.9	6.7	+8.1	3.7	+15.6	55.2	1.0	+25.0	0.6	+100.0	60.0	37.7	+3.3	17.6	+6.0	1.6	+6.7
1986	7.0	+20.7	3.8	+15.2	54.3	7.9	+17.9	4.2	+13.5	53.2	1.1	+10.0	0.6	—	54.5	39.9	+5.8	20.4	+15.9	1.8	+12.5
1987	7.4	+5.7	4.2	+10.5	56.8	9.6	+21.5	5.2	+23.8	54.2	1.1	—	0.7	+16.7	63.6	41.3	+3.5	23.7	+16.2	1.7	-5.6
1988	7.1	-4.1	4.0	-4.8	56.3	8.6	-10.4	5.1	-1.9	59.3	1.0	-9.1	0.6	-14.3	60.0	40.9	-1.0	21.1	-11.0	1.5	-11.8

a. Percent change from previous year
b. Apparel as percent of total imports of semimanufactured and manufactured products
c. Excludes Glass Fiber. Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue

MAY 1989 CAPACITY SURVEY ANALYSIS

U.S. Manufactured Fiber Capacity Utilization at 90%

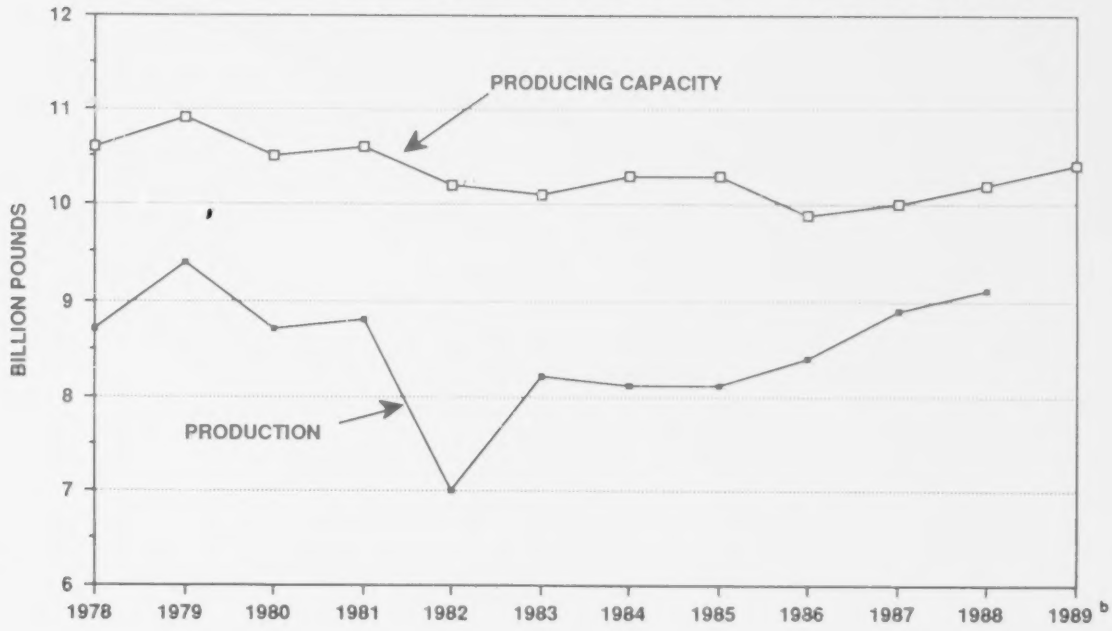
Based on yearly January - April production data and May 1989 Capacity Survey results, the capacity utilzation rate for the U.S. manufactured fiber industry stood at 90% as compared to 89% in 1988 (Graph 3).

Total industry capacity (excluding glass fiber) rose to 10,402 million pounds, 2% above the 10,244 million pounds recorded in the November 1988 Survey.

Since November 1988, the noncellulosic filament yarn capacity rose from 4,742 million pounds to 4,790 million pounds, with a 4% gain in nylon carpet yarn.

In 1989, capacity for noncellulosic staple+tow increased 2% to 4,892 million pounds, the highest level since November 1985, when capacity stood at 4,890 million pounds (Table 10). A major increase was shown in polyester staple+tow where the capacity rose from 2,524 million pounds in November 1988 to 2,619 million pounds in May 1989.

GRAPH 3:
MANUFACTURED FIBER INDUSTRY PRODUCTION & PRODUCING CAPACITY [a]



a. Cellulosic and noncellunosic fiber excluding glass fiber.
b. Based on May 1989 capacity survey.

TABLE 9:
U.S. MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

PERIOD	CELLULOSIC FIBERS							NONCELLULOSIC FIBERS [a]			GRAND TOTAL MANUFACTURED FIBERS EXCLUDING GLASS FIBER			NON-ADD GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW			TOTAL	YARN +MONO	STAPLE +TOW	TOTAL	YARN +MONO [c]	STAPLE +TOW	TOTAL	
	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL								
ACTUAL ANNUAL PRODUCTION														
1977	71	282	353	527	8	535	888	3674	3654	7328	4027	4189	8216	787
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	-	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 g			353 g	558	3790	3773	7563	3995	4126	8121	NA
1986			215 g			404 g	619	3836	3992	7828	4051	4396	8447	NA
1987			191 g			414 g	605	4010	4306	8316	4201	4720	8921	NA
1988			214 g			400 g	614	4160	4346	8506	4374	4746	9120	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1977 e	85	315	400	655	8	663	1063	4958	4394	9352	5358	5057	10415	1002
NOV 1978 e	83	330	413	665	8	673	1086	4984	4571	9555	5397	5244	10641	1118
NOV 1979 e	75	355	430	671	8	679	1109	5106	4678	9784	5536	5357	10893	1305
NOV 1980 e	63	324	387	514	8	522	909	4913	4714	9627	5300	5236	10536	1473
NOV 1981 e	52	332	384	509	5	514	898	4746	4950	9696	5130	5464	10594	1561
NOV 1982 e	63	318	381	510	4	514	895	4553	4781	9334	4934	5295	10229	1718
NOV 1983 e	63	268	331	510	4	514	845	4447	4827	9274	4778	5341	10119	1618
NOV 1984 e	63	268	331	510	4	514	845	4479	4981	9460	4810	5495	10305	1743
NOV 1985 e			269 g	510	5	515	784	4668	4890	9558	4937	5405	10342	1769
NOV 1986 e			244 g			465 g	709	4545	4662	9207	4789	5127	9916	1763
NOV 1987 e			244 g			465 g	709	4557	4793	9350	4801	5258	10059	1642
NOV 1988 e			244 g			469 g	713	4742	4789	9531	4986	5258	10244	1729
MAY 1989 e			244 g			476 g	720	4790	4892	9682	5034	5368	10402	1778
NOV 1989 f			249 g			493 g	742	4872	4903	9775	5121	5396	10517	1785
MAY 1990 f			254 g			493 g	747	4901	4720	9621	5155	5213	10368	1859
NOV 1990 f			254 g			493 g	747	4965	4745	9710	5219	5238	10457	1929
MAY 1991 f			254 g			493 g	747	5018	4787	9805	5272	5280	10552	2009

NA No longer available

a. Included are those listed in the November ***Textile Organon*** issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill.

b. Data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration.

c. Grand Total Yarn means the yarn+mono shown, excluding glass fiber.

d. Glass fiber, all types.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of NOV 1989.

g. Detail withheld due to disclosure of company data.

TABLE 10:
NONCELLULOSIC FIBER CAPACITY DETAIL
MILLION POUNDS & *AVERAGE DENIER*

	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER												STAPLE, TOW & FIBERFILL				NON-CELLU-LOSIC TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN [a]									
			TEXTILE			TEXTILE						NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON [e]	TOTAL	
PERIOD	IND	CARP	LBS	DEN	IND	LBS	DEN	YARN	MONO [b]	FILM [b]	TOTAL						
NOV 1977 c	523	829	558	*55*	443	1698	*126*	173	336	398	4958	939	869	2470	116	4394	9352
NOV 1978 c	510	908	565	*53*	443	1643	*116*	174	347	394	4984	1023	865	2554	129	4571	9555
NOV 1979 c	513	950	579	*51*	443	1699	*114*	172	342	408	5106	1020	839	2673	146	4678	9784
NOV 1980 c	515	910	551	*52*	400	1637	*113*	120	350	430	4918	991	830	2759	134	4714	9627
NOV 1981 c	514	893	553	*49*	316	1481	*114*	178	356	455	4746	1010	835	2839	266	4950	9696
NOV 1982 c	474	925	513	*53*	338	1265	*119*	209	369	460	4553	978	832	2700	271	4781	9334
NOV 1983 c	440	907	494	*52*	337	1170	*122*	240	375	484	4447	1017	826	2704	280	4827	9274
NOV 1984 c	437	926	470	*57*	342	1162	*121*	270	386	486	4479	1054	807	2784	336	4981	9460
NOV 1985 c	437	965	466	*53*	374	1097	*126*	304	412	613	4668	1067	631	2785	407	4890	9558
NOV 1986 c	435	964	398	*51*	401	1021	*123*	286	407	633	4545	1077	637	2491	457	4662	9207
NOV 1987 c	418	1005	404	*49*	399	929	*121*	342	393	667	4557	1137	652	2522	482	4793	9350
NOV 1988 c	421	1053	423	*49*	408	968	*121*	391	399	679	4742	1137	642	2524	486	4789	9531
MAY 1989 c	420	1094	421	*48*	411	964	*107*	397	403	680	4790	1145	642	2619	486	4892	9682
NOV 1989 d	420	1152	429	*48*	421	925	*108*	436	403	686	4872	1150	642	2619	492	4903	9775
MAY 1990 d	420	1167	434	*48*	422	894	*109*	467	405	692	4901	1157	647	2423	493	4720	9621
NOV 1990 d	420	1177	439	*48*	437	894	*109*	478	427	693	4965	1157	647	2423	518	4745	9710
MAY 1991 d	420	1187	444	*48*	437	894	*109*	509	434	693	5018	1157	647	2435	548	4787	9805

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber

IND Industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more

CARP Bulked continuous filament yarn for carpets

TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.

b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.

c. Actual producing capacity as of date shown.

d. Future producing capacity planned for certain dates as of NOV 1989.

e. Data since November 1986 do not include Vinyon.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the manufactured fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 issue.** The "capacity" to produce waste is not included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

TABLE 11:
CANADIAN DOMESTIC TOTAL FIBER CONSUMPTION [a]

MILLION POUNDS

YEAR	MANUFACTURED FIBER	COTTON	WOOL	TOTAL
1980	656.1	301.9	41.1	999.1
1981	569.1	292.1	56.6	917.8
1982	509.5	257.0	51.4	817.9
1983	663.5	279.2	66.7	1009.4
1984	714.8	295.9	79.5	1090.2
1985	767.0	251.5	80.3	1098.8
1986	871.8	330.2	81.8	1283.8
1987	872.6	360.0	78.1	1310.7

TABLE 12:
CANADIAN PER CAPITA FIBER CONSUMPTION [a]

POUNDS

PERIOD	POPULATION	PER CAPITA			
		MANUFACTURED FIBER	COTTON	WOOL	TOTAL
1980	24.1	27.2	12.5	1.7	41.4
1981	24.4	23.3	12.0	2.3	37.6
1982	24.7	20.6	10.4	2.1	33.1
1983	24.9	26.6	11.2	2.7	40.5
1984	25.1	28.5	11.8	3.2	43.5
1985	25.4	30.2	9.9	3.2	43.3
1986	25.6	34.1	12.9	3.2	50.2
1987	25.9	33.7	13.9	3.0	50.6

a. Based on Canadian domestic consumption (mill consumption plus imports less exports of semi-manufactured and manufactured products).
Population in millions of people.

TABLE 13:
CANADIAN MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
MILLION POUNDS & *PERCENT*

	MANUFACTURED FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)															
	CELLULOSIC FIBER								NONCELLULOSIC FIBER							
	YARN+MONOFIL			STAPLE+TOW					YARN+MONOFIL			STAPLE+TOW				
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	EXP	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	EXP	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1980	30 9	17 0	47 9	66 1	9 3	75 4	58 7	64 6	163 1	84 2	247 3	105 8	80 9	186 7	34 3	399 7
1981	29 7	17 2	46 9	62 1	4 0	66 1	54 7	58 3	145 3	59 5	204 8	96 8	92 8	189 6	64 8	329 6
1982	20 9	21 7	42 6	61 7	2 3	64 0	43 9	62 7	114 6	46 1	160 7	99 2	67 5	166 7	48 2	279 2
1983	22 0	24 3	46 3	66 1	4 1	70 2	56 5	60 0	130 6	99 0	229 6	116 9	86 3	203 2	68 5	364 3
1984	22 0	24 3	46 3	61 3	4 1	65 4	53 2	58 5	137 3	99 0	236 3	130 1	86 3	216 4	67 1	385 6
1985	17 6	25 2	42 8	59 3	4 9	64 2	54 1	52 9	165 6	115 1	280 7	119 9	89 9	209 8	70 5	420 0
1986	19 4	28 3	47 7	64 2	5 2	69 4	47 9	69 2	166 0	129 1	295 1	131 0	100 9	231 9	47 4	479 6
1987	18 7	25 4	44 1	62 8	4 5	67 3	60 5	50 9	157 6	143 1	300 7	128 3	101 3	229 6	30 0	500 3

Continued on opposite page

TABLE 13:
CANADIAN MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
(CONTINUED)
MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS									DOMESTIC CONSUMPTION OF 3 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS											
	MANUFACTURED FIBER		COTTON		WOOL		SILK	TOTAL		MANUFACTURED FIBER			COTTON			WOOL			TOTAL		
YEAR	LB	%	LB	%	LB	%	LB	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS
	(17)		(18)		(19)		(20)	(21)		(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
1980	464.3	*76.7*	130.1	*21.5*	10.9	*1.8*	--	605.3	*100.0*	268.3	76.5	656.1	192.7	20.9	301.9	40.3	10.1	41.1	501.3	107.5	999.1
1981	387.9	*72.5*	132.3	*24.7*	15.0	*2.8*	--	535.2	*100.0*	255.7	74.5	569.1	179.2	19.4	292.1	49.8	8.2	56.6	484.7	102.1	917.8
1982	341.9	*77.4*	88.2	*20.0*	11.7	*2.6*	--	441.8	*100.0*	228.4	60.8	509.5	193.1	24.3	257.0	46.3	6.6	51.4	467.8	91.7	817.9
1983	424.3	*75.7*	121.3	*21.6*	14.7	*2.7*	--	560.3	*100.0*	303.4	64.2	663.5	181.7	23.8	279.2	59.5	7.5	66.7	544.6	95.5	1009.4
1984	444.1	*76.6*	121.3	*20.9*	14.4	*2.5*	--	579.8	*100.0*	342.6	71.9	714.8	198.0	23.4	295.9	72.6	7.5	9.5	613.2	102.8	1090.2
1985	472.9	*79.5*	105.8	*17.8*	16.1	*2.7*	--	594.8	*100.0*	356.7	62.6	767.0	169.1	23.4	251.5	73.9	9.7	80.3	599.7	95.7	1098.8
1986	548.8	*80.1*	119.0	*17.4*	17.6	*2.5*	--	685.4	*100.0*	394.2	71.2	871.8	246.7	35.5	330.2	77.4	13.2	81.8	718.3	119.9	1283.8
1987	551.2	*83.4*	94.8	*14.3*	15.3	*2.3*	--	661.3	*100.0*	414.2	92.8	872.6	304.0	38.8	360.0	75.4	12.6	78.1	793.6	144.2	1310.7

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

1 - 16: ***Textile Organon,*** January 1989 and earlier editions

18: ***International Cotton Advisory Committee,*** October 1987 & 1988 issues. Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31,1987

19: ***Commonwealth Secretariat.*** Wool refers to virgin wool, clean basis, at the spinning stage

22, 23, 25, 26, 28 & 29: ***Food and Agriculture Organization of the United Nations.*** Some data are preliminary

CERTAIN TOTALS IN THE TABLES
(Obvious totals such as columns 1+2=3, 4+5=6, ect. are not described here.)

8	Columns 3 + 6 - 7
16	Columns 11 + 14 - 15
17	Columns 8 + 16
24	Columns 17 + 22 - 23
27	Columns 18 + 25 - 26
30	Columns 19 + 28 - 30

TABLE 14:
CANADIAN MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON, & WOOL
MILLION POUNDS & *PERCENT*

Year	GRAND TOTAL		COTTON[b]		WOOL[c]		MANUFACTURED FIBER[a]		MANUFACTURED FIBER DETAIL			
									CELLULOSIC TOTAL[d]		NONCELLULOSIC TOTAL[d]	
	lbs	%	lbs	%	lbs	%	lbs	%	lbs	%	lbs	%
1980	605.3	*100.0*	130.1	*21.5*	10.9	*1.8*	464.3	*76.7*	64.6	*10.7*	399.7	*66.0*
1981	535.2	*100.0*	132.3	*24.7*	15.0	*2.8*	387.9	*72.5*	58.3	*10.9*	329.6	*61.6*
1982	475.4	*100.0*	88.2	*20.0*	11.7	*2.6*	375.5	*77.4*	83.2	*17.5*	292.3	*61.5*
1983	560.3	*100.0*	121.3	*21.6*	14.7	*2.7*	424.3	*75.7*	60.0	*10.7*	364.3	*65.0*
1984	579.8	*100.0*	121.3	*20.9*	14.4	*2.5*	444.1	*76.6*	58.5	*10.1*	385.6	*66.5*
1985	594.8	*100.0*	105.8	*17.8*	16.1	*2.7*	472.9	*79.5*	52.9	*8.9*	420.0	*70.6*
1986	685.4	*100.0*	119.0	*17.4*	17.6	*2.5*	548.8	*80.1*	69.2	*10.1*	479.6	*70.0*
1987	661.3	*100.0*	94.8	*14.3*	15.3	*2.3*	551.2	*83.4*	50.9	*7.7*	500.3	*75.7*

a. Manufactured fiber data are from ***Textile Organon***, January 1989 and earlier editions.
The data show the manufactured net available supply, which approximates mill consumptions.

b. **Source:** ***International Cotton Advisory Committee***, October 1987 & 1988 issues. Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31,1987.

c. **Source:** ***Commenwealth Secretariat***. Wool refers to virgin wool, clean basis, at the spinning stage.

d. Including yarn, staple+tow and spun yarn.

TABLE 15:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	6										6	
BRAZIL	53	110	55										218	
CANADA	745	619	686										2050	
GERMANY, FED. REP. OF	784	515	697										1996	
JAPAN	55	121	122										298	
MEXICO	156	99	171										426	
NETHERLANDS	61	239	261										561	
UNITED KINGDOM	75	68	113										256	
ALL OTHER COUNTRIES [a]	187	68	88										343	
TOTAL ARTIFICIAL YARN	**2116**	**1839**	**2199**										**6154**	**4031**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	323	422	377										1122	
CANADA	4757	1990	4093										10840	
GERMANY, FED. REP. OF	68	67	95										230	
JAPAN	150	521	422										1093	
UNITED KINGDOM	265	225	1										491	
ALL OTHER COUNTRIES [b]	414	266	656										1336	
TOTAL ARTIFICIAL STAPLE+TOW	**5977**	**3491**	**5644**										**15112**	**3344**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	0	56	115										171	
BRAZIL	124	137	365										626	
CANADA	3397	2900	2855										9152	
COSTA RICA	252	487	591										1330	
ECUADOR	91	26	144										261	
FRANCE	886	703	708										2297	
GERMANY, FED. REP. OF	2231	2071	2641										6943	
IRELAND	0	32	1										33	
ISRAEL	299	217	172										688	
ITALY	378	106	129										613	
JAPAN	881	1233	1007										3121	
KOREA, REP. OF	10	49	7										66	
MEXICO	1447	2233	2385										6065	
NETHERLANDS	68	170	164										402	
SINGAPORE	0	25	0										25	
TAIWAN	50	175	650										875	
THAILAND	65	64	69										198	
UNITED KINGDOM	1398	1357	1491										4246	
ALL OTHER COUNTRIES [c]	36	194	295										525	
TOTAL SYNTHETIC YARN	**11613**	**12235**	**13789**										**37637**	**29817**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	3	9										12	
AUSTRALIA	31	160	1										192	
BELGIUM	47	99	60										206	
BRAZIL	0	24	0										24	
CANADA	1413	737	1481										3631	
FRANCE	230	304	253										787	
GERMANY, FED. REP. OF	1985	1758	1318										5061	
INDIA	0	0	3772										3772	
IRELAND	280	480	305										1065	
ITALY	482	394	206										1082	
JAPAN	1773	1757	2303										5833	
KOREA, REP. OF	2297	3387	3933										9617	
MEXICO	1049	372	420										1841	
NETHERLANDS	31	103	99										233	
SWITZERLAND	146	165	134										445	
TAIWAN	262	235	215										712	
UNITED KINGDOM	2318	2304	1643										6265	
ALL OTHER COUNTRIES [d]	28	29	223										280	
TOTAL SYNTHETIC STAPLE+TOW	**12372**	**12311**	**16375**										**41058**	**43312**

a. Chile 88, Korea, Rep. of 88, Ireland 73, Italy 38, Norway 32, Singapore 23, Taiwan 1.
b. China, PRC 473, Australia 217, Korea, Rep. of 171, Germany, Dem. Rep. 95, Poland 78, Switzerland 75, Romania 58, Taiwan 56, France 51, Sweden 43, India 18, Mexico 1.
c. Portugal 139, Argentina 86, Austria 63, Australia 47, Egypt 44, Turkey 40, Spain 31, Morocco 26, Chile 22, El Salvador 15, Switzerland 7, Greece 2, Sweden 2, Denmark 1.
d. Spain 186, Germany, Dem. Rep. 42, Israel 29, Turkey 18, Hong Kong 3, China, PRC 2.

Effective January 1,1989 the U.S. Manufactured Imports for Consumption by Country of Origin are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

Selected U.S. Manufactured Imports for Consumption by Country of Origin for 1988 are published in the ***Textile Organon***, February 1989 issue, page 31.

TABLE 16:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	114	266	408										788	
TEXTURED	180	1	0										181	
OTHER	1726	1532	1671										4929	
MONOFILAMENTS & STRIPS	96	40	120										256	
SUBTOTAL ABOVE	**2116**	**1839**	**2199**										**6154**	**4031**
STAPLE	5924	3481	5624										15029	
TOW	47	0	0										47	
TOPS	6	10	20										36	
SUBTOTAL ABOVE	**5977**	**3491**	**5644**										**15112**	**3344**
WASTE	**18**	**122**	**47**										**187**	**5**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON													3636	
HIGH TENACITY	1037	1093	1506											
TEXTURED														
UP TO 450 DENIER	385	217	359										961	
OVER 450 DENIER	1	76	0										77	
OTHER	3820	3306	3786										10912	
MONOFILAMENTS & STRIPS	72	159	58										289	
SUBTOTAL ABOVE	**5315**	**4851**	**5709**										**15875**	**9626**
POLYESTER														
HIGH TENACITY	957	880	909										2746	
TEXTURED	883	1673	1738										4294	
POY	0	40	642										682	
OTHER	1152	1481	1719										4352	
MONOFILAMENTS & STRIPS	65	80	34										179	
SUBTOTAL ABOVE	**3057**	**4154**	**5042**										**12253**	**8898**
OTHER SYNTHETIC FILAMENT														
TEXTURED	2057	1685	1550										5292	
OTHER	1037	1246	1180										3463	
MONOFILAMENTS & STRIPS	147	299	308										754	
SUBTOTAL ABOVE	**3241**	**3230**	**3038**										**9509**	**11293**
STAPLE														
NYLON	1726	1896	1845										5467	
POLYESTER	5584	5594	10047										21225	
ACRYLIC	1934	1028	1576										4538	
POLYPROPYLENE	44	55	197										296	
OTHER	172	1040	651										1863	
TOW														
NYLON	237	433	257										927	
POLYESTER	47	78	131										256	
ACRYLIC	2023	1709	1127										4859	
OTHER	117	120	146										383	
TOPS	488	358	398										1244	
SUBTOTAL ABOVE	**12372**	**12311**	**16375**										**41058**	**43312**
WASTE														
NYLON	1971	1804	1754										5529	
POLYESTER	999	340	730										2069	
OTHER	396	725	477										1598	
TOTAL MANUFACTURED FIBERS ABOVE	**35462**	**32867**	**41015**										**109344**	**92294**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	15	13	15										43	
SPUN YARN	0	0	0										0	
SPUN YARNS														
SYNTHETIC	517	686	517										1720	
ARTIFICIAL	0	0	0										0	
PUT UP FOR RETAIL SALE	71	50	27										148	
GRAND TOTAL ABOVE	**36065**	**33616**	**41574**										**111255**	**116136**

SOURCE: U.S. Census Bureau Report IM145X.

Effective January 1,1989 the U.S. Imports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Imports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 32.

TABLE 17:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1989	1988
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	9	13	45										67	
TEXTURED	463	17	29										509	
OTHER	1278	296	267										1841	
MONOFILAMENTS & STRIPS	90	0	7										97	
SUBTOTAL ABOVE	**1840**	**326**	**348**										**2514**	**2418**
STAPLE	2827	1786	1325										5938	
TOPS	94	0	8										102	
SUBTOTAL ABOVE	**2921**	**1786**	**1333**										**6040**	**5092**
WASTE	**1303**	**559**	**1587**										**3449**	**592**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON													26625	
HIGH TENACITY	9331	9418	7884											
TEXTURED														
UP TO 450 DENIER	522	586	719										1827	
OVER 450 DENIER	4706	5051	5459										15216	
OTHER	2038	2103	2133										6274	
MONOFILAMENTS & STRIPS	239	258	187										684	
SUBTOTAL ABOVE	**16836**	**17408**	**16382**										**50626**	**42939**
POLYESTER														
HIGH TENACITY	3031	3122	2773										8926	
TEXTURED	3651	3677	2385										9713	
POY	939	1250	2204										4393	
OTHER	1007	584	829										2420	
MONOFILAMENTS & STRIPS	208	213	203										624	
SUBTOTAL ABOVE	**8836**	**8846**	**8394**										**26076**	**19839**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1033	457	872										2362	
OTHER	1342	1471	1735										4548	
MONOFILAMENTS & STRIPS	486	421	771										1678	
SUBTOTAL ABOVE	**2861**	**2349**	**3378**										**8588**	**11229**
STAPLE														
NYLON	2605	3265	3262										9132	
POLYESTER	14048	10762	12940										37750	
ACRYLIC	3326	5674	6643										15643	
POLYPROPYLENE	1336	1569	1129										4034	
OTHER	836	2036	1489										4361	
TOW														
NYLON	31	50	50										131	
POLYESTER	37	564	472										1073	
ACRYLIC	1037	1761	2185										4983	
OTHER	161	16	34										211	
TOPS	847	964	1224										3035	
SUBTOTAL ABOVE	**24264**	**26661**	**29428**										**80353**	**111863**
WASTE														
NYLON	2127	2118	2159										6404	
POLYESTER	4369	3980	3189										11538	
OTHER	5113	6957	8080										20150	
TOTAL MANUFACTURED FIBERS ABOVE	**70470**	**70990**	**74278**										**215738**	**225005**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	13	51	43										107	
SPUN YARN	0	0	0										0	
SPUN YARNS														
SYNTHETIC	732	959	1152										2843	
ARTIFICIAL	0	0	0										0	
PUT UP FOR RETAIL SALE	606	740	923										2269	
GRAND TOTAL ABOVE	**71821**	**72740**	**76396**										**220957**	

SOURCE: U.S. Census Bureau Report IM145X.

Effective January 1,1989 the U.S. Exports are based on the new Harmonized System (HS). On pages 73 through 79 of the ***Fiber Organon***, April 1989 issue, we present the Harmonized Tariff Schedule of the United States covering cellulosic (artificial) and noncellulosic (synthetic) fibers, Annotated for Statistical Reporting Purposes. **Data for 1989 is not comparable to prior years.**

U.S. Monthly Exports of Manufactured Fibers for 1988, are published in the ***Textile Organon***, February 1989 issue, on page 33.

TABLE 18:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1987 1ST Q	1987 2ND Q	1987 3RD Q	1987 4TH Q	1987 YEAR	1988 1ST Q	1988 2ND Q	1988 3RD Q	1988 4TH Q	1988 YEAR	1989 1ST Q	1989 2ND Q	1989 3RD Q	1989 4TH Q	1989 YEAR
						YARN+MONOFILAMENTS									
CELLULOSIC YARN [d]															
PRODUCTION	46.2	46.7	45.2	53.0	191.1	49.1	54.4	54.9	55.5	213.9	52.7				
SHIPMENTS - DOMESTIC	39.2	43.6	40.2	43.8	166.8	41.4	47.3	45.8	48.1	182.6	46.0				
- EXPORT	5.0	5.9	6.1	7.9	24.9	8.7	7.9	10.0	7.5	34.1	6.8				
TOTAL SHIPMENTS	**44.2**	**49.5**	**46.3**	**51.7**	**191.7**	**50.1**	**55.2**	**55.8**	**55.6**	**216.7**	**52.8**				
ENDING STOCK	16.8	14.0	12.9	14.2		13.2	12.4	11.5	11.4		11.3				
IMPORTS	3.0	2.5	2.7	4.4	12.6	4.0	4.0	4.4	5.2	17.6	6.2				
TOTAL AVAILABLE	**42.2**	**46.1**	**42.9**	**48.2**	**179.4**	**45.4**	**51.3**	**50.2**	**53.3**	**200.2**	**52.2**				
NYLON															
PRODUCTION	**414.1**	**427.5**	**432.9**	**422.7**	**1697.2**	**431.7**	**440.0**	**428.8**	**427.0**	**1727.5**	**436.8**				
SHIPMENTS - DOMESTIC	389.3	394.8	405.8	364.4	1554.3	387.8	395.4	391.1	398.1	1572.4	387.9				
- EXPORT	32.1	37.9	33.7	35.8	139.5	39.6	38.1	41.5	46.8	166.0	42.6				
TOTAL SHIPMENTS	**421.4**	**432.7**	**439.5**	**400.2**	**1693.8**	**427.4**	**433.5**	**432.6**	**444.9**	**1738.4**	**430.5**				
ENDING STOCK	125.5	120.3	113.7	136.2		140.5	147.0	143.2	125.3		131.6				
OLEFIN [e]															
PRODUCTION	255.8	283.9	287.4	306.7	1133.8	301.6	308.9	291.7	302.0	1204.2	306.8				
SHIPMENTS - DOMESTIC	261.5	281.8	287.5	304.7	1135.5	298.3	302.5	287.7	295.6	1184.1	299.6				
- EXPORT	2.7	1.7	1.8	2.1	8.3	2.7	5.9	6.0	5.2	19.8	5.2				
TOTAL SHIPMENTS	**264.2**	**283.5**	**289.3**	**306.8**	**1143.8**	**301.0**	**308.4**	**293.7**	**300.8**	**1203.9**	**304.8**				
ENDING STOCK	54.5	54.9	53.0	52.9		53.5	54.0	52.0	53.2		55.2				
POLYESTER															
PRODUCTION	287.7	303.3	293.9	293.8	1178.7	284.5	313.5	304.6	326.1	1228.7	314.4				
SHIPMENTS - DOMESTIC	266.8	285.2	280.8	280.6	1113.4	266.7	291.9	278.2	320.6	1157.4	292.0				
- EXPORT	16.4	18.4	15.8	16.3	66.9	18.8	17.8	16.7	21.4	74.7	15.9				
TOTAL SHIPMENTS	**283.2**	**303.6**	**296.6**	**296.9**	**1180.3**	**285.5**	**309.7**	**294.9**	**342.0**	**1232.1**	**307.9**				
ENDING STOCK	115.4	115.1	112.4	109.3		108.3	112.1	121.8	105.9		112.4				
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	**957.6**	**1014.7**	**1014.2**	**1023.2**	**4009.7**	**1017.8**	**1062.4**	**1025.1**	**1055.1**	**4160.4**	**1058.0**				
SHIPMENTS - DOMESTIC	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0	1014.3	3913.9	979.5				
- EXPORT	51.2	58.0	51.3	54.2	214.7	61.1	61.8	64.2	73.4	260.5	63.7				
SHIPMENTS	**968.8**	**1019.8**	**1025.4**	**1003.9**	**4017.9**	**1013.9**	**1051.6**	**1021.2**	**1087.7**	**4174.4**	**1043.2**				
ENDING STOCK	**295.4**	**290.3**	**279.1**	**298.4**		**302.3**	**313.1**	**317.0**	**284.4**		**299.2**				
DOMESTIC SHIPMENTS	917.6	961.8	974.1	949.7	3803.2	952.8	989.8	957.0	1014.3	3913.9	979.5				
IMPORTS -TEXTURED YARN [b]	19.3	15.1	17.2	16.9	68.5	15.7	14.7	16.1	14.1	60.6	10.6				
-OTHER YARN [b]	13.3	12.4	11.9	11.3	48.9	11.2	11.1	11.9	13.4	47.6	25.1				
-MONOFILAMENTS	0.8	0.9	1.0	1.1	3.8	1.8	2.3	2.0	2.0	8.1	1.2				
TOTAL IMPORTS	33.4	28.4	30.1	29.3	121.2	28.7	28.1	30.0	29.5	116.3	36.9				
TOTAL AVAILABLE	**951.0**	**990.2**	**1004.2**	**979.0**	**3924.4**	**981.5**	**1017.9**	**987.0**	**1043.8**	**4030.2**	**1016.4**				
						GLASS FIBER									
TOTAL SHIPMENTS	**366.1**	**392.5**	**383.3**	**371.2**	**1513.1**	**386.4**	**415.2**	**405.9**	**380.2**	**1587.7**	**394.2**				
IMPORTS	4.9	5.6	11.3	7.6	29.4	5.6	7.1	6.5	7.0	26.2	0.7				

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"**Imports**" are imports for consumption, as reported by the U.S. Census Bureau

a. Also include film fiber as well as spunbonded polypropylene

b. Includes singles and plied

c. For 1987-1988, these figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, 4351, 4336 & 4361. For 1989, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

d. Includes both rayon & acetate yarn.

e. For 1987-1988, these figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, 4341 & 4390. For 1989, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon***.

f. 1987-1989 data exclude Vinyon.

TABLE 18:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1987					1988					1989				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	101.3	100.5	103.6	108.4	413.8	106.6	101.2	99.4	92.6	399.8	100.8				
SHIPMENTS - DOMESTIC	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0	88.1	386.0	99.7				
- EXPORT	8.1	8.2	12.6	3.5	32.4	5.1	6.1	5.5	3.8	20.5	3.4				
TOTAL SHIPMENTS	**99.9**	**99.2**	**110.5**	**105.9**	**415.5**	**107.0**	**108.1**	**99.5**	**91.9**	**406.5**	**103.1**				
ENDING STOCK	**23.8**	**25.1**	**18.2**	**20.7**		**20.3**	**13.4**	**13.3**	**14.0**		**11.7**				
DOMESTIC SHIPMENTS	91.8	91.0	97.9	102.4	383.1	101.9	102.0	94.0	88.1	386.0	99.7				
IMPORTS FOR CONSUMPTION															
STAPLE	3.9	3.8	2.6	2.7	13.0	3.2	3.8	5.5	6.5	19.0	} 6.0				
GROUPED FILAMENTS	0.2	0.1	0.4	0.2	0.9	0.2	0.3	0.5	0.4	1.4					
TOTAL IMPORTS	4.1	3.9	3.0	2.9	13.9	3.4	4.1	6.0	6.9	20.4	6.0				
TOTAL AVAILABLE	**95.9**	**94.9**	**100.9**	**105.3**	**397.0**	**105.3**	**106.1**	**100.0**	**95.0**	**406.4**	**105.7**				
NYLON															
PRODUCTION	**247.4**	**261.0**	**252.8**	**231.2**	**992.4**	**231.5**	**235.9**	**226.6**	**247.7**	**941.7**	**252.9**				
SHIPMENTS-DOMESTIC	246.2	253.2	246.2	220.4	966.0	239.4	223.9	241.6	240.0	944.9	242.0				
-EXPORT	5.3	5.0	3.7	5.5	19.5	4.3	4.3	4.9	5.5	19.0	7.5				
TOTAL SHIPMENTS	**251.5**	**258.2**	**249.9**	**225.9**	**985.5**	**243.7**	**228.2**	**246.5**	**245.5**	**963.9**	**249.5**				
ENDING STOCK	**58.7**	**61.5**	**64.4**	**69.7**		**57.5**	**65.2**	**45.3**	**47.5**		**50.9**				
IMPORTS	14.8	8.7	8.6	6.9	39.0	4.9	5.1	5.4	6.5	21.9	6.4				
TOTAL AVAILABLE	**261.0**	**261.9**	**254.8**	**227.3**	**1005.0**	**244.3**	**229.0**	**247.0**	**246.5**	**966.8**	**248.4**				
ACRYLIC+MODACRYLIC															
PRODUCTION	**155.7**	**159.0**	**135.3**	**141.5**	**591.5**	**148.8**	**150.9**	**141.5**	**146.9**	**588.1**	**144.3**				
SHIPMENTS-DOMESTIC	139.4	131.6	112.8	95.5	479.3	109.0	109.3	107.3	95.5	421.1	112.9				
-EXPORT	14.7	17.0	32.0	51.4	115.1	47.7	29.1	39.8	52.5	169.1	23.6				
TOTAL SHIPMENTS	**154.1**	**148.6**	**144.8**	**146.9**	**594.4**	**156.7**	**138.4**	**147.1**	**148.0**	**590.2**	**136.5**				
ENDING STOCK	**67.8**	**78.2**	**68.7**	**63.3**		**55.4**	**67.9**	**62.3**	**61.2**		**69.0**				
IMPORTS	3.3	4.1	4.6	3.7	15.7	3.3	4.4	3.3	4.3	15.3	9.4				
TOTAL AVAILABLE	**142.7**	**135.7**	**117.4**	**99.2**	**495.0**	**112.3**	**113.7**	**110.6**	**99.8**	**436.4**	**122.3**				
OLEFIN+VINYON [1]															
PRODUCTION	**85.5**	**92.3**	**92.1**	**90.6**	**360.5**	**94.3**	**94.5**	**85.9**	**89.3**	**364.0**	**97.1**				
SHIPMENTS-DOMESTIC	81.1	85.7	86.1	88.2	341.1	83.8	87.6	84.8	88.0	344.2	91.6				
-EXPORT	6.9	5.7	5.4	4.8	22.8	5.6	5.8	4.4	3.8	19.6	3.0				
TOTAL SHIPMENTS	**88.0**	**91.4**	**91.5**	**93.0**	**363.9**	**89.4**	**93.4**	**89.2**	**91.8**	**363.8**	**94.6**				
ENDING STOCK	**31.0**	**31.9**	**32.5**	**30.1**		**35.0**	**36.1**	**32.8**	**30.3**		**32.8**				
POLYESTER															
PRODUCTION	**581.0**	**596.2**	**578.4**	**606.2**	**2361.8**	**587.4**	**619.5**	**604.3**	**640.6**	**2451.8**	**609.3**				
SHIPMENTS-DOMESTIC	534.4	549.9	537.5	579.2	2201.0	558.3	572.5	551.2	629.8	2311.8	575.3				
-EXPORT	48.2	47.0	38.3	34.7	168.2	27.8	31.1	38.2	40.0	137.1	34.9				
TOTAL SHIPMENTS	**582.6**	**596.9**	**575.8**	**613.9**	**2369.2**	**586.1**	**603.6**	**589.4**	**669.8**	**2448.9**	**610.2**				
ENDING STOCK	**162.3**	**161.6**	**164.2**	**156.5**		**157.8**	**173.7**	**188.6**	**159.4**		**158.5**				
IMPORTS	15.5	17.4	23.4	14.4	70.7	15.0	20.7	22.3	15.2	73.2	21.5				
TOTAL AVAILABLE	**549.9**	**567.3**	**560.9**	**593.6**	**2271.7**	**573.3**	**593.2**	**573.5**	**645.0**	**2385.0**	**596.8**				
TOTAL NONCELLULOSIC															
PRODUCTION	**1069.6**	**1108.5**	**1058.6**	**1069.5**	**4306.2**	**1062.0**	**1100.8**	**1058.3**	**1124.5**	**4345.6**	**1103.6**				
SHIPMENTS-DOMESTIC	1001.1	1020.4	982.6	983.3	3987.4	990.5	993.3	984.9	1053.3	4022.0	1021.8				
-EXPORT	75.1	74.7	79.4	96.4	325.6	85.4	70.3	87.3	101.8	344.8	69.0				
TOTAL SHIPMENTS	**1076.2**	**1095.1**	**1062.0**	**1079.7**	**4313.0**	**1075.9**	**1063.6**	**1072.2**	**1155.1**	**4366.8**	**1090.8**				
ENDING STOCK	**319.8**	**333.2**	**329.8**	**319.6**		**305.7**	**342.9**	**329.0**	**298.4**		**311.2**				
DOMESTIC SHIPMENTS	1001.1	1020.4	982.6	983.3	3987.4	990.5	933.3	984.9	1053.3	4022.0	1021.8				
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [C]	33.6	30.2	36.6	25.0	125.4	23.2	30.2	31.0	26.0	110.4	37.3				
OTHER N.C. STAPLE [e]	2.8	3.6	3.7	3.4	13.5	5.6	5.7	4.3	4.2	19.8	} 3.8				
GROUPED FILAMENTS	12.4	12.4	12.1	13.1	50.0	14.5	17.8	15.7	17.8	65.8					
TOTAL IMPORTS	48.8	46.2	52.4	41.5	188.9	43.3	53.7	51.0	48.0	196.0	41.1				
TOTAL AVAILABLE	**1049.9**	**1066.6**	**1035.0**	**1024.8**	**4176.3**	**1033.8**	**1047.0**	**1035.9**	**1101.3**	**4218.0**	**1062.9**				

See footnotes on opposite page.

TABLE 19:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1989	1988
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	17.3	17.1	18.4	21.5									74.3	69.3
RAYON STAPLE	34.5	32.1	36.5	32.1									135.2	142.6
TOTAL CELLULOSIC	**51.8**	**49.2**	**54.9**	**53.6**									**209.5**	**211.9**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	31.3	30.5	32.5	32.3									126.6	126.7
- CARPET	74.9	77.2	82.0	77.5									311.6	318.5
- TEXTILE[f]	33.9	33.2	35.0	34.6									136.7	126.9
POLYESTER - INDUSTRIAL[d]	28.6	29.7	30.9	32.2									121.4	117.9
- TEXTILE[f]	72.4	71.4	74.9	78.2									296.9	273.3
OLEFIN[e]	102.5	101.5	100.8	96.6									401.4	403.7
TOTAL YARN	**343.6**	**343.5**	**356.1**	**351.4**									**1394.6**	**1367.0**
STAPLE+TOW+FIBERFILL														
NYLON	82.3	78.4	88.8	76.4									325.9	314.8
ACRYLIC+MODACRYLIC	41.7	46.2	48.6	49.2									185.7	202.1
POLYESTER	201.1	192.3	216.8	213.7									823.9	798.4
OLEFIN	31.0	31.6	32.0	31.4									126.0	119.2
TOTAL STAPLE	**356.1**	**348.5**	**386.2**	**370.7**									**1461.5**	**1434.5**
TOTAL NONCELLULOSIC	**699.7**	**692.0**	**742.3**	**722.1**									**2856.1**	**2801.5**
TOTAL MANUFACTURED FIBER	**751.5**	**741.2**	**797.2**	**775.7**									**3065.6**	**3013.4**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	11.7	10.9	11.3	10.4									10.4	14.0
RAYON STAPLE	13.0	13.2	11.7	12.5									12.5	18.1
TOTAL CELLULOSIC	**24.7**	**24.1**	**23.0**	**22.9**									**22.9**	**32.1**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.4	24.7	22.4	22.9									22.9	23.2
- CARPET	63.5	63.2	62.8	68.7									68.7	67.1
- TEXTILE[f]	47.1	48.3	46.4	47.0									47.0	49.7
POLYESTER - INDUSTRIAL[d]	35.0	31.4	30.6	31.6									31.6	29.6
- TEXTILE[f]	73.5	76.9	81.8	85.1									85.1	77.3
OLEFIN[e]	53.1	53.8	55.2	55.3									55.3	54.1
TOTAL YARN	**296.6**	**298.3**	**299.2**	**310.6**									**310.6**	**301.0**
STAPLE+TOW+FIBERFILL														
NYLON	51.8	52.9	50.9	57.5									57.5	64.5
ACRYLIC+MODACRYLIC	70.5	68.3	69.0	67.3									67.3	58.0
POLYESTER	163.5	163.8	158.5	164.4									164.4	161.7
OLEFIN	31.0	31.3	32.8	34.3									34.3	35.8
TOTAL STAPLE	**316.8**	**316.3**	**311.2**	**323.5**									**323.5**	**320.0**
TOTAL NONCELLULOSIC	**613.4**	**614.6**	**610.4**	**634.1**									**634.1**	**621.0**
TOTAL MANUFACTURED FIBER	**638.1**	**638.7**	**633.4**	**657.0**									**657.0**	**653.1**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.1	12.7											24.8	24.6
CARPET CLASS WOOL	0.8	1.4											2.2	2.9
TOTAL RAW WOOL	12.9	14.1											27.0	27.5
RAW COTTON	289.5	301.0	345.0										935.5	950.7

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.